

Specific Plans: (Day to day listing)

Sunday, July 31, 1994

- Morning:** **1. The Action and Regulation Lipid Digestive Enzymes**
Session Leader: Howard Brockman, Hormel Institute.
- 9:00 am Howard Brockman, Hormel Institute, U.S.A. - The role of lipid/aqueous interface on the rate of lipolysis
- 9:35 am Robert Verger, C.N.R.S., Marseille, France - Gastric and pancreatic lipases: biochemical and physiological studies
- 10:10 am David Hui, Univ. of Cincinnati, U.S.A. - Genetic regulation of cholesterol esterase (carboxyl ester hydrolase)
- 10:45 am Break
- 11:00 am Patsy M. Brannon, Univ. of Arizona, U.S.A. - Dietary and hormonal regulation of pancreatic lipase gene expression
- 11:35 am Eugene P. DiMagno, Mayo Clinic, U.S.A. - Secretion and fate of lipase and colipase in healthy humans and in chronic pancreatitis
- Evening:** **2. Micellar and non-micellar uptake of dietary lipids**
Section Leader: Martin Carey, Harvard Medical School, U.S.A.
- 7:30 pm John W. Nichols, Emory Univ., U.S.A. - Mechanisms of lysophospholipid and bile salt absorption in the small intestine
- 8:00 pm Wolfgang Stremmel, Univ. of Düsseldorf, F.R.G. - The role of the brush border fatty acid binding protein on intestinal fat absorption
- 8:30 pm Break
- 8:45 pm Martin Carey, Harvard Medical School, U.S.A. - Micellar and non-micellar uptake of 2-monoglyceride and fatty acid

Monday, August 1

- Morning** **3. Intracellular transport and metabolism of lipids**
Section Leader: Charles M. Mansbach, Univ. of Tennessee
- 9:00 am Judith Storch, Harvard Sch. of Public Health, U.S.A. - The role of fatty acid binding protein in intracellular lipid transport.
- 9:35 am Arnis Kuksis, Univ. of Toronto, Canada - Apparent convergence (at 2-monoglyceride level) of phosphatidic acid and 2-monoglyceride pathways of synthesis of chylomicron triglyceride
- 10:10 am Charles M. Mansbach, Univ. of Tennessee, U.S.A. - Origin of endogenous acyl groups in intestinal triglyceride
- 10:45 am Break
- 11:00 am Rosalind Coleman, Univ. of North Carolina, U.S.A. - The role of monoacylglycerol transferase in retaining essential fatty acids
- 11:35 am Allen R. Place, Maryland Biotechnology Institute, U.S.A. - Wax ester absorption and metabolism by sea mammals: living off the fat of the sea
- Evening** **4. Intestinal apolipoprotein synthesis and metabolism**
Section Leader: Robert M. Glickman, Harvard Medical School
- 7:30 pm Nicholas O. Davidson, Univ. of Chicago, U.S.A. - Apolipoprotein B editing
- 8:00 pm Jeffrey F. Field, Univ. of Iowa, U.S.A. - Regulation of apolipoprotein B secretion by CaCo-2 cells
- 8:30 pm Break
- 8:45 pm Robert M. Glickman - Harvard Medical School, U.S.A. - Intestinal apolipoprotein gene regulation

Tuesday, August 2

- Morning:** **5. Dietary and therapeutic modification of intestinal lipid absorption**
Section leader: Alan B.R. Thomson, Univ. of Alberta, Canada
- 9:00 am Dan Quinn, Univ. of Iowa, U.S.A. - Enzyme structure and molecular recognition in cholesterol esterase catalysis and inhibition
- 9:35 am Bengt Borgstrom, Univ. of Lund, Sweden - Pancreatic lipase inhibitors
- 10:10 am Brian R. Krause, Parke-Davis, U.S.A. - Pharmacologic approach to the study of intestinal ACAT, pancreatic cholesterol esterase and pancreatic phospholipase A₂ in cholesterol absorption
- 10:45 am Break
- 11:00 am Alfred H. Merrill, Emory Univ., U.S.A. - Digestion of dietary sphingolipids and effects on gastrointestinal physiology
- 11:35 am Alan B.R. Thomson, Univ. of Alberta, Canada - Dietary modification of intestinal lipid absorption
- Evening:** **6. New frontiers in intestinal research.**
Session Leader: David Y. Hui, Univ. of Cincinnati, U.S.A.
- 7:30 pm Jeffrey I. Gordon, Washington Univ. Sch. of Med., U.S.A. - The use of transgenic animals in intestinal research

Wednesday, August 3

- Morning** **7. Lipoprotein structure, packaging and secretion**
Session Leader: Roger Davis, San Diego State Univ., U.S.A.
- 9:00 am John Wetterau, Bristol-Myers Squibb Co., U.S.A. - The role of the microsomal triglyceride transfer protein in lipoprotein assembly
- 9:35 am Donald Puppione, Univ. of California Los Angeles, U.S.A., Factors affecting the composition and structure of chylomicrons
- 10:10 am Robert Hamilton, Univ. of California San Francisco, U.S.A. - Apo B core lipidation: a two-step model of lipoprotein assembly
- 10:45 am Break
- 11:00 am Tak Yee Aw, Louisiana State Univ., U.S.A. - The role of glutathione in lipid hydroperoxide metabolism by the intestine
- 11:35 am Roger Davis, San Diego State Univ., U.S.A. - Mechanism of assembly of triglyceride-rich lipoproteins
- Evening** **8. Neonatal development of intestinal lipid absorption.**
Session Leaders: Claude C. Roy, Univ. of Montreal, Canada and Dennis D. Black, Univ. of Chicago, U.S.A.
- 7:30 pm Emile Levy, Univ. of Montreal, Canada. - New concepts in intestinal lipoprotein synthesis and secretion in the neonate
- 8:00 pm Deborah C. Rubin, Washington Univ. Sch. of Med., U.S.A. - Ontogenic analysis of spatial and cellular patterns of apolipoprotein gene expression in normal and isografted rat intestine
- 8:30 pm Break
- 8:45 pm Dennis D. Black, Univ. of Chicago, U.S.A. - Regulation of apolipoprotein gene expression in the neonate

Thursday, August 4

- Morning** **9. Postprandial lipoprotein and apolipoprotein metabolism.**
Session Leader: Trevor G. Redgrave, Univ. of Western Australia, Australia.
- 9:00 am Trevor G. Redgrave, Univ. of West Australia, Australia. - Genetic control of chylomicron transport and metabolism
- 9:35 am George A. Bray, Pennington Biomedical Research Center, U.S.A. - Peptides affecting fat intake

10:10 am *John M. Dietschy*, Texas Southwestern Med. Ctr., U.S.A. - The
effect of specific dietary fatty acids on regulation of hepatic
LDL receptor activity
10:45 am Break
11:00 am *Patrick Tso*, Louisiana State Univ., U.S.A. - Apolipoprotein A-IV
is a potent satiety factor
11:30 am *Alan F. Hofmann*, Univ. of California San Diego, U.S.A. - A
summary of the conference and future directions